

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:

Joyce

TestAmerica Job ID: 360-39255-1

Client Project/Site: Olin Chemical Surface water Quarterly

For:
Olin Corporation
PO BOX 248
Charleston, Tennessee 37310-0248

Attn: Mr. James Cashwell

Joseph Chimi

Authorized for release by:

3/8/2012 9:58:08 AM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Olin Corporation
Project/Site: Olin Chemical Surface water Quarterly

TestAmerica Job ID: 360-39255-1

Job ID: 360-39255-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/23/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 6.0 C.

METALS (ICP)

Samples OC-ISCO3-SW (360-39255-1), OC-ISCO2-SW (360-39255-2), OC-SW-PZ16RR-SW (360-39255-3), OC-SW-PZ-17RR-SW (360-39255-4), OC-SD-17-SW (360-39255-5), OC-PZ18R-SW (360-39255-6) and OC-ISCO1-SW (360-39255-7) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 02/24/2012 and analyzed on 02/27/2012 and 03/06/2012.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples OC-ISCO3-SW (360-39255-1), OC-ISCO2-SW (360-39255-2), OC-SW-PZ16RR-SW (360-39255-3), OC-SW-PZ-17RR-SW (360-39255-4), OC-SD-17-SW (360-39255-5), OC-PZ18R-SW (360-39255-6) and OC-ISCO1-SW (360-39255-7) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were analyzed on 03/06/2012.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the metals (ICP) analyses.

All quality control parameters were within the acceptance limits.

ANIONS (28 DAY HOLD TIME)

Samples OC-ISCO3-SW (360-39255-1), OC-ISCO2-SW (360-39255-2), OC-SW-PZ16RR-SW (360-39255-3), OC-SW-PZ-17RR-SW (360-39255-4), OC-SD-17-SW (360-39255-5), OC-PZ18R-SW (360-39255-6) and OC-ISCO1-SW (360-39255-7) were analyzed for anions (28 day hold time) in accordance with EPA Method 300.0. The samples were analyzed on 02/24/2012.

Samples OC-ISCO3-SW (360-39255-1)[10X], OC-ISCO2-SW (360-39255-2)[10X], OC-SW-PZ16RR-SW (360-39255-3)[10X], OC-SW-PZ-17RR-SW (360-39255-4)[10X], OC-SD-17-SW (360-39255-5)[10X], OC-PZ18R-SW (360-39255-6)[10X] and OC-ISCO1-SW (360-39255-7)[10X] required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

ANIONS (48 HR HOLD TIME)

Samples OC-ISCO3-SW (360-39255-1), OC-ISCO2-SW (360-39255-2), OC-SW-PZ16RR-SW (360-39255-3), OC-SW-PZ-17RR-SW

Case Narrative

Client: Olin Corporation
Project/Site: Olin Chemical Surface water Quarterly

TestAmerica Job ID: 360-39255-1

Job ID: 360-39255-1 (Continued)

Laboratory: TestAmerica Westfield (Continued)

(360-39255-4), OC-SD-17-SW (360-39255-5), OC-PZ18R-SW (360-39255-6) and OC-ISCO1-SW (360-39255-7) were analyzed for anions (48 hr hold time) in accordance with EPA Method 300.0. The samples were analyzed on 02/24/2012.

Samples OC-ISCO3-SW (360-39255-1)[10X], OC-ISCO2-SW (360-39255-2)[10X], OC-SW-PZ16RR-SW (360-39255-3)[10X], OC-SW-PZ-17RR-SW (360-39255-4)[10X], OC-SD-17-SW (360-39255-5)[10X], OC-PZ18R-SW (360-39255-6)[10X] and OC-ISCO1-SW (360-39255-7)[10X] required dilution prior to analysis due to high non-target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples OC-ISCO3-SW (360-39255-1), OC-ISCO2-SW (360-39255-2), OC-SW-PZ16RR-SW (360-39255-3), OC-SW-PZ-17RR-SW (360-39255-4), OC-SD-17-SW (360-39255-5), OC-PZ18R-SW (360-39255-6) and OC-ISCO1-SW (360-39255-7) were analyzed for ammonia in accordance with Lachat 107-06-1B. The samples were prepared and analyzed on 02/27/2012.

Samples OC-ISCO2-SW (360-39255-2)[10X], OC-SW-PZ16RR-SW (360-39255-3)[10X], OC-SW-PZ-17RR-SW (360-39255-4)[10X], OC-SD-17-SW (360-39255-5)[10X], OC-PZ18R-SW (360-39255-6)[10X] and OC-ISCO1-SW (360-39255-7)[10X] required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Samples OC-ISCO3-SW (360-39255-1), OC-ISCO2-SW (360-39255-2), OC-SW-PZ16RR-SW (360-39255-3), OC-SW-PZ-17RR-SW (360-39255-4), OC-SD-17-SW (360-39255-5), OC-PZ18R-SW (360-39255-6) and OC-ISCO1-SW (360-39255-7) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 03/01/2012.

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

MassDEP Analytical Protocol Certification Form

Laboratory Name: TestAmerica Westfield		Project #: 360-39255-1			
Project Location: Wilmington, MA		RTN:			
This form provides certifications for the following data set: list Laboratory Sample ID Number(s): 360-39255-(1-7)					
Matrices: <input checked="" type="checkbox"/> Groundwater/Surface Water <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Drinking Water <input type="checkbox"/> Air <input type="checkbox"/> Other:					
CAM Protocols (check all that apply below):					
8260 VOC CAM II A	7470/7471 Hg CAM III B	Mass DEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	Mass DEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	Mass DEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	
Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status					
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Responses to Questions G, H and I below are required for "Presumptive Certainty" status					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No ¹
¹ All negative responses must be addressed in an attached laboratory narrative.					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.					
Signature:			Position:	Laboratory Director	
Printed Name:	Steven C. Hartmann		Date:	3/8/12 9:52	
This form has been electronically signed and approved					

Method Summary

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL WFD
300.0	Chloride & Sulfate	40CFR136A	TAL WFD
300.0	Nitrate & Nitrite	40CFR136A	TAL WFD
L107-06-1B	Nitrogen Ammonia	LACHAT	TAL WFD
SM 2510B	Conductivity, Specific Conductance	SM	TAL WFD

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Sample Summary

Client: Olin Corporation

Project/Site: Olin Chemical Surface water Quarterly

TestAmerica Job ID: 360-39255-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-39255-1	OC-ISCO3-SW	Water	02/23/12 07:20	02/23/12 16:45
360-39255-2	OC-ISCO2-SW	Water	02/23/12 07:40	02/23/12 16:45
360-39255-3	OC-SW-PZ16RR-SW	Water	02/23/12 08:00	02/23/12 16:45
360-39255-4	OC-SW-PZ-17RR-SW	Water	02/23/12 08:20	02/23/12 16:45
360-39255-5	OC-SD-17-SW	Water	02/23/12 08:45	02/23/12 16:45
360-39255-6	OC-PZ18R-SW	Water	02/23/12 08:55	02/23/12 16:45
360-39255-7	OC-ISCO1-SW	Water	02/23/12 09:05	02/23/12 16:45

Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Client Sample ID: OC-ISCO3-SW

Lab Sample ID: 360-39255-1

Matrix: Water

Date Collected: 02/23/12 07:20

Date Received: 02/23/12 16:45

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	39	J	100	13	ug/L		02/24/12 09:45	02/27/12 12:54	1
Chromium	0.68	J	5.0	0.66	ug/L		02/24/12 09:45	02/27/12 12:54	1
Sodium	77000		2000	780	ug/L		02/24/12 09:45	03/06/12 15:47	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	36	J	100	13	ug/L			03/06/12 16:39	1
Chromium	ND		5.0	0.66	ug/L			03/06/12 16:39	1
Sodium	88000		2000	780	ug/L			03/06/12 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.94		0.050	0.050	mg/L			02/24/12 16:53	1
Sulfate	36		2.0	2.0	mg/L			02/24/12 16:53	1
Chloride	140		10	10	mg/L			02/24/12 17:10	10
Nitrite as N	ND		0.10	0.10	mg/L			02/24/12 17:10	10
Ammonia	2.4		0.10	0.10	mg/L		02/27/12 10:48	02/27/12 15:34	1
Specific Conductance	670		1.0	1.0	umhos/cm			03/01/12 09:29	1

Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Client Sample ID: OC-ISCO2-SW

Lab Sample ID: 360-39255-2

Matrix: Water

Date Collected: 02/23/12 07:40

Date Received: 02/23/12 16:45

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	140		100	13	ug/L		02/24/12 09:45	02/27/12 12:57	1
Chromium	73		5.0	0.66	ug/L		02/24/12 09:45	02/27/12 12:57	1
Sodium	140000		2000	780	ug/L		02/24/12 09:45	03/06/12 15:51	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	150		100	13	ug/L			03/06/12 16:42	1
Chromium	74		5.0	0.66	ug/L			03/06/12 16:42	1
Sodium	150000		2000	780	ug/L			03/06/12 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.2		0.050	0.050	mg/L			02/24/12 17:27	1
Sulfate	420		20	20	mg/L			02/24/12 17:45	10
Chloride	130		10	10	mg/L			02/24/12 17:45	10
Nitrite as N	ND		0.10	0.10	mg/L			02/24/12 17:45	10
Ammonia	92		1.0	1.0	mg/L		02/27/12 10:48	02/27/12 15:52	10
Specific Conductance	1500		1.0	1.0	umhos/cm			03/01/12 09:30	1

Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Client Sample ID: OC-SW-PZ16RR-SW

Lab Sample ID: 360-39255-3

Matrix: Water

Date Collected: 02/23/12 08:00

Date Received: 02/23/12 16:45

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	640		100	13	ug/L		02/24/12 09:45	02/27/12 13:00	1
Chromium	340		5.0	0.66	ug/L		02/24/12 09:45	02/27/12 13:00	1
Sodium	150000		2000	780	ug/L		02/24/12 09:45	03/06/12 15:54	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	760		100	13	ug/L			03/06/12 16:51	1
Chromium	360		5.0	0.66	ug/L			03/06/12 16:51	1
Sodium	170000		2000	780	ug/L			03/06/12 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.1		0.050	0.050	mg/L			02/24/12 18:02	1
Sulfate	470		20	20	mg/L			02/24/12 18:53	10
Chloride	160		10	10	mg/L			02/24/12 18:53	10
Nitrite as N	ND		0.10	0.10	mg/L			02/24/12 18:53	10
Ammonia	100		1.0	1.0	mg/L		02/27/12 10:48	02/27/12 15:53	10
Specific Conductance	1600		1.0	1.0	umhos/cm			03/01/12 09:32	1

Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Client Sample ID: OC-SW-PZ-17RR-SW

Lab Sample ID: 360-39255-4

Matrix: Water

Date Collected: 02/23/12 08:20

Date Received: 02/23/12 16:45

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1000		100	13	ug/L		02/24/12 09:45	02/27/12 13:09	1
Chromium	510		5.0	0.66	ug/L		02/24/12 09:45	02/27/12 13:09	1
Sodium	190000		2000	780	ug/L		02/24/12 09:45	03/06/12 15:57	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1200		100	13	ug/L			03/06/12 16:54	1
Chromium	540		5.0	0.66	ug/L			03/06/12 16:54	1
Sodium	220000		2000	780	ug/L			03/06/12 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	3.4		0.050	0.050	mg/L			02/24/12 19:10	1
Sulfate	550		20	20	mg/L			02/24/12 19:27	10
Chloride	220		10	10	mg/L			02/24/12 19:27	10
Nitrite as N	ND		0.10	0.10	mg/L			02/24/12 19:27	10
Ammonia	89		1.0	1.0	mg/L		02/27/12 10:48	02/27/12 15:54	10
Specific Conductance	2000		1.0	1.0	umhos/cm			03/01/12 09:33	1

Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Client Sample ID: OC-SD-17-SW

Lab Sample ID: 360-39255-5

Matrix: Water

Date Collected: 02/23/12 08:45

Date Received: 02/23/12 16:45

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	780		100	13	ug/L		02/24/12 09:45	02/27/12 13:12	1
Chromium	370		5.0	0.66	ug/L		02/24/12 09:45	02/27/12 13:12	1
Sodium	180000		2000	780	ug/L		02/24/12 09:45	03/06/12 16:00	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	890		100	13	ug/L			03/06/12 16:57	1
Chromium	410		5.0	0.66	ug/L			03/06/12 16:57	1
Sodium	210000		2000	780	ug/L			03/06/12 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	3.7		0.050	0.050	mg/L			02/24/12 19:44	1
Sulfate	460		20	20	mg/L			02/24/12 20:01	10
Chloride	210		10	10	mg/L			02/24/12 20:01	10
Nitrite as N	ND		0.10	0.10	mg/L			02/24/12 20:01	10
Ammonia	77		1.0	1.0	mg/L		02/27/12 10:48	02/27/12 15:55	10
Specific Conductance	1800		1.0	1.0	umhos/cm			03/01/12 09:35	1

Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Client Sample ID: OC-PZ18R-SW

Lab Sample ID: 360-39255-6

Matrix: Water

Date Collected: 02/23/12 08:55

Date Received: 02/23/12 16:45

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	82	J	100	13	ug/L		02/24/12 09:45	02/27/12 13:15	1
Chromium	14		5.0	0.66	ug/L		02/24/12 09:45	02/27/12 13:15	1
Sodium	98000		2000	780	ug/L		02/24/12 09:45	03/06/12 16:03	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	92	J	100	13	ug/L			03/06/12 17:00	1
Chromium	14		5.0	0.66	ug/L			03/06/12 17:00	1
Sodium	120000		2000	780	ug/L			03/06/12 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.34		0.050	0.050	mg/L			02/24/12 20:19	1
Sulfate	180		20	20	mg/L			02/24/12 20:36	10
Chloride	140		10	10	mg/L			02/24/12 20:36	10
Nitrite as N	ND		0.10	0.10	mg/L			02/24/12 20:36	10
Ammonia	51		1.0	1.0	mg/L		02/27/12 10:48	02/27/12 15:56	10
Specific Conductance	1000		1.0	1.0	umhos/cm			03/01/12 09:36	1

Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Client Sample ID: OC-ISCO1-SW

Lab Sample ID: 360-39255-7

Matrix: Water

Date Collected: 02/23/12 09:05

Date Received: 02/23/12 16:45

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	85	J	100	13	ug/L		02/24/12 09:45	02/27/12 13:18	1
Chromium	15		5.0	0.66	ug/L		02/24/12 09:45	02/27/12 13:18	1
Sodium	100000		2000	780	ug/L		02/24/12 09:45	03/06/12 16:06	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100		100	13	ug/L			03/06/12 17:03	1
Chromium	15		5.0	0.66	ug/L			03/06/12 17:03	1
Sodium	120000		2000	780	ug/L			03/06/12 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.27		0.050	0.050	mg/L			02/24/12 20:53	1
Sulfate	170		20	20	mg/L			02/24/12 21:10	10
Chloride	140		10	10	mg/L			02/24/12 21:10	10
Nitrite as N	ND		0.10	0.10	mg/L			02/24/12 21:10	10
Ammonia	44		1.0	1.0	mg/L		02/27/12 10:48	02/27/12 15:57	10
Specific Conductance	970		1.0	1.0	umhos/cm			03/01/12 09:45	1

Definitions/Glossary

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

☀	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Olin Corporation

Project/Site: Olin Chemical Surface water Quarterly

TestAmerica Job ID: 360-39255-1

General Chemistry (Continued)

Analysis Batch: 87959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-39255-1	OC-ISCO3-SW	Total/NA	Water	SM 2510B	5
360-39255-2	OC-ISCO2-SW	Total/NA	Water	SM 2510B	6
360-39255-3	OC-SW-PZ16RR-SW	Total/NA	Water	SM 2510B	7
360-39255-4	OC-SW-PZ-17RR-SW	Total/NA	Water	SM 2510B	8
360-39255-5	OC-SD-17-SW	Total/NA	Water	SM 2510B	9
360-39255-6	OC-PZ18R-SW	Total/NA	Water	SM 2510B	10
360-39255-7	OC-ISCO1-SW	Total/NA	Water	SM 2510B	11
LCS 360-87959/1	Lab Control Sample	Total/NA	Water	SM 2510B	12
MB 360-87959/3	Method Blank	Total/NA	Water	SM 2510B	13

QC Sample Results

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 360-87959/3

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 87959

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Specific Conductance	ND		1.0	1.0	umhos/cm			03/01/12 09:22	1

Lab Sample ID: LCS 360-87959/1

Client Sample ID: Lab Control Sample

Matrix: Water

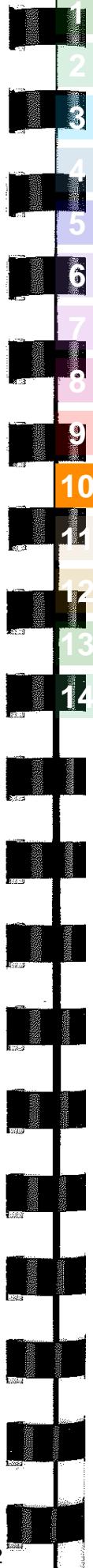
Prep Type: Total/NA

Analysis Batch: 87959

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Specific Conductance	1410	1400		umhos/cm		99	85 - 115

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DILUTION LOGS



TestAmerica Westfield
Analytical Dilution Preparation Log

Date: 7/24/12

Analyst Initials	Date	Method	LIMS Sample ID	Rpt'd Dil.	Sample Aliquot 1	Final Volume 1	Units	Serial Dilution			Comments
								Sample Aliquot 2	Serial Dilution	Final Volume 2	
ANG	7/24/12	3M0.0	3925541	10X	1	ML	10			ML	
					2						
					3						
					4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
					13						
					14						

entries completed by day [new page each day]

0679

TestAmerica Westfield

Analytical Dilution Preparation Log

Date: 2-27-12

Analyst Initials	Date	Method	LIMS Sample ID	Rptd Dil.	Sample Aliquot 1	Final Volume 1	Units	Serial Dilution		
								Sample Aliquot 2	Final Volume 2	Units
RWE 2-27-12	NH3	39255C1A	1DX	1	μL	10	μL			
		C3A								
		CH4								
		CSA12								
		C6A12								
		C7A2	✓	✓	✓	✓	✓			
		39262C1A	500 μL	10	μL					
		C7A	10X	1	μL	10	μL			
		C7B NS								
		C7C NS								
		C3A	✓	✓	✓	✓	✓			

entries completed by day [new page each day]

022e

Lab Chronicle

Client: Olin Corporation
Project/Site: Olin Chemical Surface water Quarterly

TestAmerica Job ID: 360-39255-1

Client Sample ID: OC-SW-PZ16RR-SW

Lab Sample ID: 360-39255-3

Matrix: Water

Date Collected: 02/23/12 08:00
Date Received: 02/23/12 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2510B		1	87959	03/01/12 09:32	AMS	TAL WFD

Client Sample ID: OC-SW-PZ-17RR-SW

Lab Sample ID: 360-39255-4

Matrix: Water

Date Collected: 02/23/12 08:20
Date Received: 02/23/12 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			87766	02/24/12 09:45	OG	TAL WFD
Total/NA	Analysis	6010C		1	87865	02/27/12 13:09	TJS	TAL WFD
Total/NA	Analysis	6010C		1	88128	03/06/12 15:57	TJS	TAL WFD
Dissolved	Analysis	6010C		1	88130	03/06/12 16:54	TJS	TAL WFD
Total/NA	Analysis	300.0		10	87810	02/24/12 19:27	AMS	TAL WFD
Total/NA	Prep	Distill/Ammonia			87823	02/27/12 10:48	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		10	87850	02/27/12 15:54	RWE	TAL WFD
Total/NA	Analysis	300.0		1	87884	02/24/12 19:10	AMS	TAL WFD
Total/NA	Analysis	300.0		10	87884	02/24/12 19:27	AMS	TAL WFD
Total/NA	Analysis	SM 2510B		1	87959	03/01/12 09:33	AMS	TAL WFD

Client Sample ID: OC-SD-17-SW

Lab Sample ID: 360-39255-5

Matrix: Water

Date Collected: 02/23/12 08:45
Date Received: 02/23/12 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			87766	02/24/12 09:45	OG	TAL WFD
Total/NA	Analysis	6010C		1	87865	02/27/12 13:12	TJS	TAL WFD
Total/NA	Analysis	6010C		1	88128	03/06/12 16:00	TJS	TAL WFD
Dissolved	Analysis	6010C		1	88130	03/06/12 16:57	TJS	TAL WFD
Total/NA	Analysis	300.0		10	87810	02/24/12 20:01	AMS	TAL WFD
Total/NA	Prep	Distill/Ammonia			87823	02/27/12 10:48	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		10	87850	02/27/12 15:55	RWE	TAL WFD
Total/NA	Analysis	300.0		1	87884	02/24/12 19:44	AMS	TAL WFD
Total/NA	Analysis	300.0		10	87884	02/24/12 20:01	AMS	TAL WFD
Total/NA	Analysis	SM 2510B		1	87959	03/01/12 09:35	AMS	TAL WFD

Client Sample ID: OC-PZ18R-SW

Lab Sample ID: 360-39255-6

Matrix: Water

Date Collected: 02/23/12 08:55
Date Received: 02/23/12 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			87766	02/24/12 09:45	OG	TAL WFD
Total/NA	Analysis	6010C		1	87865	02/27/12 13:15	TJS	TAL WFD
Total/NA	Analysis	6010C		1	88128	03/06/12 16:03	TJS	TAL WFD
Dissolved	Analysis	6010C		1	88130	03/06/12 17:00	TJS	TAL WFD

Lab Chronicle

Client: Olin Corporation
 Project/Site: Olin Chemical Surface water Quarterly

TestAmerica Job ID: 360-39255-1

Client Sample ID: OC-PZ18R-SW

Lab Sample ID: 360-39255-6

Matrix: Water

Date Collected: 02/23/12 08:55

Date Received: 02/23/12 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	87810	02/24/12 20:36	AMS	TAL WFD
Total/NA	Prep	Distill/Ammonia			87823	02/27/12 10:48	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		10	87850	02/27/12 15:56	RWE	TAL WFD
Total/NA	Analysis	300.0		1	87884	02/24/12 20:19	AMS	TAL WFD
Total/NA	Analysis	300.0		10	87884	02/24/12 20:36	AMS	TAL WFD
Total/NA	Analysis	SM 2510B		1	87959	03/01/12 09:36	AMS	TAL WFD

Client Sample ID: OC-ISCO1-SW

Lab Sample ID: 360-39255-7

Matrix: Water

Date Collected: 02/23/12 09:05

Date Received: 02/23/12 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			87766	02/24/12 09:45	OG	TAL WFD
Total/NA	Analysis	6010C		1	87865	02/27/12 13:18	TJS	TAL WFD
Total/NA	Analysis	6010C		1	88128	03/06/12 16:06	TJS	TAL WFD
Dissolved	Analysis	6010C		1	88130	03/06/12 17:03	TJS	TAL WFD
Total/NA	Analysis	300.0		10	87810	02/24/12 21:10	AMS	TAL WFD
Total/NA	Prep	Distill/Ammonia			87823	02/27/12 10:48	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		10	87850	02/27/12 15:57	RWE	TAL WFD
Total/NA	Analysis	300.0		1	87884	02/24/12 20:53	AMS	TAL WFD
Total/NA	Analysis	300.0		10	87884	02/24/12 21:10	AMS	TAL WFD
Total/NA	Analysis	SM 2510B		1	87959	03/01/12 09:45	AMS	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: Olin Corporation

TestAmerica Job ID: 360-39255-1

Project/Site: Olin Chemical Surface water Quarterly

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
SM 4500 CI F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9223	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli	ambient/source		
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B/C	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO ₃) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
8081A/B	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082/A	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C/D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW		NP/SW
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW		
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B/C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 360-39255-1

Login Number: 39255

List Source: TestAmerica Westfield

List Number: 1

Creator: Ard, Vanessa L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Westfield

Westfield Executive Park 53 Southampton Road
 Westfield, MA 01085
 Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center

240 Bear Hill Rd. Suite 104
 Waltham, MA 02451

Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>Brian Richardson</u>	Lab PN: <u>6010B</u>	Carrier Tracking No(s): <u>6010B</u>	Job #: <u>21067</u>																																																
Client Contact:	James Cashew II	Phone: <u>978 658 6131</u>	E-Mail: <u>jcashew@jazz.com</u>	Page: <u>1</u>	CCG No: <u>21067</u>																																																
Sample Identification <hr/> Analysis Requested <hr/> Preservation Codes: <input type="checkbox"/> A - HCL <input type="checkbox"/> J - DI Water <input type="checkbox"/> B - NaOH <input type="checkbox"/> M - Hexane <input type="checkbox"/> C - Zn Acetate <input type="checkbox"/> N - None <input type="checkbox"/> D - Nitric Acid <input type="checkbox"/> P - Na2O4S <input type="checkbox"/> E - NaHSO4 <input type="checkbox"/> Q - Na2SO3 <input type="checkbox"/> F - MeOH <input type="checkbox"/> R - Na2S2O3 <input type="checkbox"/> G - Ascorbic Acid <input type="checkbox"/> S - H2SO4 <input type="checkbox"/> I - Ice <input type="checkbox"/> Z - other (specify) Total Number of Containers : <u>1</u>																																																					
Regulatory Programs: <input type="checkbox"/> MCP <input checked="" type="checkbox"/> GW/SI <input type="checkbox"/> RCP <input checked="" type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required																																																					
Special Instructions/Note: <u>6010B - Full</u> <u>6/21/12</u> <u>6010B - Spec. Card</u> <u>3000.881350/12</u> <u>6010B - Full Head</u> <u>6/21/12</u> <u>Lach - 102.06 - L-B. Amm un19</u>																																																					
Sample Preparation/Materials <input checked="" type="checkbox"/> Field Filtered Sample? <input checked="" type="checkbox"/> Perform MSDS?																																																					
Sample Date Sample Time Sample Type (C=comp, G=grab) Preservation Code: <table border="1"> <tr> <td>06-12-2012</td> <td>7:20</td> <td>C</td> <td>S</td> </tr> <tr> <td>06-12-2012</td> <td>7:40</td> <td>C</td> <td>D</td> </tr> <tr> <td>06-12-2012</td> <td>8:00</td> <td>C</td> <td>N</td> </tr> <tr> <td>06-12-2012</td> <td>8:20</td> <td>C</td> <td>P</td> </tr> <tr> <td>06-12-2012</td> <td>8:45</td> <td>C</td> <td>X</td> </tr> <tr> <td>06-12-2012</td> <td>8:55</td> <td>C</td> <td>X</td> </tr> <tr> <td>06-12-2012</td> <td>9:05</td> <td>C</td> <td>X</td> </tr> <tr> <td>06-12-2012</td> <td>9:15</td> <td>C</td> <td>X</td> </tr> <tr> <td>06-12-2012</td> <td>9:25</td> <td>C</td> <td>X</td> </tr> <tr> <td>06-12-2012</td> <td>9:30</td> <td>C</td> <td>X</td> </tr> <tr> <td>06-12-2012</td> <td>9:45</td> <td>C</td> <td>X</td> </tr> <tr> <td>06-12-2012</td> <td>10:00</td> <td>C</td> <td>X</td> </tr> </table>						06-12-2012	7:20	C	S	06-12-2012	7:40	C	D	06-12-2012	8:00	C	N	06-12-2012	8:20	C	P	06-12-2012	8:45	C	X	06-12-2012	8:55	C	X	06-12-2012	9:05	C	X	06-12-2012	9:15	C	X	06-12-2012	9:25	C	X	06-12-2012	9:30	C	X	06-12-2012	9:45	C	X	06-12-2012	10:00	C	X
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Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological																																																					
Deliverable Requested: I, II, III, IV. Other (specify)																																																					
Reinstituted by: <u>Brian Richardson</u> Date/Time: <u>6/23/12 0220</u> Company: <u>TestAmerica</u> Reinstituted by: <u>Jerry Dahl</u> Date/Time: <u>6/23/12 1145</u> Company: <u>TestAmerica</u> Reinstituted by: <u> </u> Date/Time: <u> </u> Company: <u> </u>																																																					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months																																																					
Special Instructions/QC Requirements:																																																					
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Cooler Temperature(s)°C and Other Remarks: <u>6/0/12</u>																																																					

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